"APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000 CIA-RDP86-00513R0005

VOLZHENSKIY, Aleksandr Vasil'yevich, Laureat Lerinskoy premii, doktor tekhn. nauk, prof.; BUROV, Yuriy Sergeyevich, kand. tekhn. nauk; VINOGRADOV, Boris Nikolayevich; CLADKIKH, Klara Vasil'yevna, kand. tekhn. nauk; NIKOLAYEVA, N.M., red.izd-va; SHERSTNEVA, N.V., tekhn. red.

[Concretes and products based on slag and ash cements; hardened in steam chambers and autoclaves] Betony i izdeliia hardened in steam chambers and autoclaves] Betony i izdeliia na shlakovykh i zol'nykh tsementakh; pri tverdenii v proparochnykh kamerakh i avtoklavakh. Pod obshchei red. A.V. rochnykh kamerakh i avtoklavakh. Pod obshchei red. A.V. Volzhenskogo. Moskva, Gosstroiizdat, 1963. 361 p. (MIRA 16:12)

(Precast concrete)

"APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000 CIA-RDP86-00513R0005

VOEZHENSKEY, A.V., prof., d ktor tekhrunung GLADE KH, K.Y., ditsent, kand. tekhnanauk

Some ways of improving cellular contrate products, Strollamat, 10 (MIRA 18:1)

CIA-RDP86-00513R000 CIA-RDP86-00518R0005

S/145/60/000/012/006/008 D221/D301

AUTHORS:

Komissarov, V. I., Candidate of Technical Sciences, and Gladkikh, L. G., Assistent

TITLE:

Investigation and calculation of errors due to temps rature deformations of machined components during

cutting

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Mashinostro-

yeniye, no. 12, 1960, 143-150

TEXT: The author gives the results of experimental investigations on longitudinal and transverse distribution of cutting heat; the effect of machining conditions and tool geometry on the heat quantity thermal deformations in the component and their relationship to the main factors. The experiments were carried out with CY21-40 (SCh-2:-40) cast iron bushes of 560 mm OD, whose inside diameter was varied from 450 to 500 mm. Their length was 800 mm and weight was varied from 450 to 500 mm. 315 - 315 kg. Carbide tipped tools BK8 (VK8) were used, whose get metry is described. The temperature was measured by a mercury

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BR0005

Investigation and calculation ... Di

\$/145/60/000/012/006/008 D221/D301

thermometer fixed in blind holes drilled in the machined surface inp to 18 thermometers were used). Immediately after the machinena yake with three micron indicators was placed at the end section to determine the deformations. In both transversal and longitudinal we first the distribution of heat is not uniform; in the former, maximum temperature is found at points where a considerable quite ty of hot chips is accumulated during machining. The average temperature of components where the chips contributed to heat generalize with 30 · 25% higher than in cases which chip removal during the machining are given. Effects of the cutting regime speed and depto are also considered. The authors deduce that the thermal deforms tions in microsis are equal to 0.31.10-4D21/Gs1-2v0.00 where site feed in machinen, v = the speed of cutting in m/min, D = the diameter of the machined hole in mm; T=the length of machines have its ideal to the weight of component in kg. There is a good agreement is tween the calculated values of thermal deformations and experimental results. The amount of heat due to machining which enter

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"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 APPROVED FOR RELEASE BR0005

Investigation and calculation ...

\$/145/60/000/012/006/00-D221/D301

the component, the irregularity of its distribution and the thornal deformation depend on the physical and mechanical properties : the material, conditions of machining, size and weight of temptener. The obtained equations may be used for calculating the existed accuracy of boring. There are 6 figures, 2 tables and 3 Sc. viet-bloc references.

ASSOCIATION:

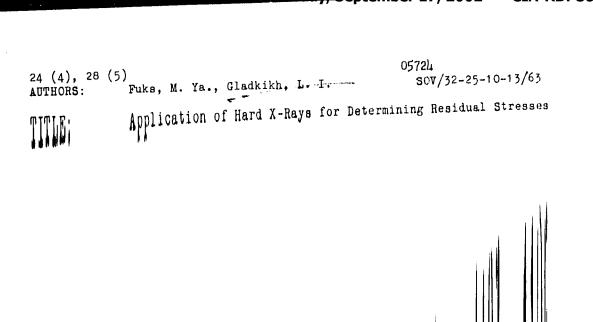
Dal'nevostochnyy politekhnicheskiy institut (Fa

Eastern Polytechnic Institute)

SUBMITTED:

April 23, 1959

Card 3/3



"APPROVED FOR RELEASE: Tuesday, September 17, 2002 **APPROVED FOR RELEASE: Tuesday, September 17, 2002**

CIA-RDP86-00513R000 CIA-RDP86-Q4548R0005

Investigation and calculation ...

S/145/60/000/01>/006/00-D221/D301

the component, the irregularity of its distribution and the thermal deformation depend on the physical and mechanical properties in the material, conditions of machining, size and weight of image nent. The obtained equations may be used for calculating the expected accuracy of boring. There are 6 figures, 2 tables and 3 Sc. viet-bloc references.

ASSOCIATION:

Dul'nevostochnyy politekhnicheskiy institut (Per

Eastern Polytechnic Institute)

SUBMITTED:

April 23, 1959

Card 3/3

24 (4), 28 (5)

Fuks, M. Ya., Gladkikh, L. I.

05724 507/32-25-10-13/63 BR0005

TITLE:

AUTHORS:

Application of Hard X-Rays for Determining Residual Stresses

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 10, pp 1193 - 1195

(USSR)

ABSTRACT:

Soft X-rays are generally used for measuring stresses of 1st order and microstresses. The hard X-rays, however, show some advantages, i.e. the dissolution of the K_{α} -doublet is better (because of the higher $\frac{\Delta \lambda}{\lambda}$ -value), and the widening of the

line (by dispersity) decreases with a decrease in wave length. Therefore, a dissolution of the K_{α} -doublet takes place on lines

with larger reflection angles, also in the case of strongly cold-hardened and highly disperse materials. The advantage of using hard X-rays is represented by means of radiograms (Figs 1,2) obtained for hardened carbon steel St 3 (the pictures were taken in molybdenum radiation by means of a tube of B. Ya. Pines' system). Comparisons of the two X-ray investigation methods (hard and soft rays) can be applied to the study of anisotropy. The measurement results obtained by the

Card 1/2

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 CIA-RDP86-00514R000 CIA-RDP86-00514R000 CIA-RDP86-00514R000 CIA-RDP86-00514R00 CIA-RDP86-00514R000 CIA-RDP86-00514R000 CIA-RDP86-00514R00 CIA-RDP86-00514R00 CIA-RDP86-00514R00

Application of Hard X-Rays for Determining Residual 50V/32-25-10-13/63

approximation method in iron radiation on lines (110) and (220), in molybdenum radiation on lines (321) and (651, 732), and in iron-molybdenum radiation on lines (651) and (220), are compared with respect to the amount of microstresses, and the range of coherent dispersion (Table). There are 2 figures, 1 table, and 1 Soviet reference.

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut im. V. I. Lenina (Khar'kov Polytechnic Institute imeni V. I. Lenin)

BR0005

FUKS, M.Ya.; GLADKIKH, L.I.

Methods of determining lattice spacing from broadened spectrum lines. Zav.lab. 28 no.6:697-700 :62. (EEA 15:5)

1. Khar'kovskiy politekhnicheskiy institut imeni V.I. Lenina. (Crystal lattices)

⊯R0005

FUKS, M.Ya.; GLADKIKH, L.I.

Investigation of oriented microstresses with the help of hard X rays. Fiz.met.i metalloved. 15 no.4:523-528 Ap '63. (MIRA 16:6)

1. Khar'kovskiy politekhnicheskiy institut imeni Lenina. (Crystal lattices) (Metallography)

GLADKIKH, L.I.; KUZ'MENKO, O.G.; FUKS, M. Ya.

Comparing the results of investigation of powder specimens by the methods of approximation and harmonic analysis. Zav. lab. 30 no.62712-716 *64 (MIRA 17:8)

1. Khar kovskiy politekhnicheskiy institut imeni V.I. Lenina.

G-00518R0005

FUKS, M.Ya.; GLADKIKH, L.I.

Some characteristics of the radiographic method of menourement of elactic stresses. Zav. iau. 31 no.8:978-983 165.

(2:81 allil)

1. Khar'kovskiy politekhnicheckiy institut.

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 *** APPROVED FOR RELEASES TIME MANUFACTURE 17, 2002 CIA-RDP8 BR0005 • -•● ... 19 ... --CA ---... --• • -•• • ... --Delectric losses in borate glasses at high frequencies A. F. Val'ter, M. A. Gladkith and K. I. Martyushus 7. Feb. Phys. (U. S. S. R.) 10, 1488 1683 (1940). The effect of admixed elements (Li, Na, K., Ba, Ca) on the effect of delect losses in borate glasses was investigated angle of delect losses in borate glasses was investigated. The monotonic variations of ten å as the result of the homotonic variations of ten å as the result of the obtained for the temp. Interval = 150 to +160 hy CaO was obtained for the temp. In the small was smallest when Li₂O was substituted by K₂O. This milit becomes more sharp with interease of temp. For small total concil. the unroduction of a second alkali oxide increases the dielect, bases, whereas to the large concils. this can cause a sharp decrease. ... -00 -00 #**4** • 3 400 ... 40 0 200 200 J 5 **0 0** -. . . --40 700 -**1** 20 O **200** = 0 • 6-2- -- 2. HENT AS H. S. A. METALLURGICAL LITERATURE CLASSIFICATION 200 30 e 8

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-APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00518R0005

CLAPRIVE. M. A.

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Shiroko ispolbzavati solomu v tejellyulomno - 'umembnoy promjeblyennosti. Bumazh. Promstb. 1969. No & S. 18-15

SO: LTIGHTS To. 31

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000 CIA-RDP86-0 **648**R0005

GLADKIKH, M.A., inzhemer; SHMAROVOZ, V.I., imzhemer.

Testing a power transformer produced by FEM. Elek.sta. 28 no.1:80-81 Ja 157. (MIRA 10:3 (MLRA 10:3)

(Austria -- Electric transformers)

A-RDP06-00513R0005

ALEKSANDROV. V.A., inzh.; GLADKIKH, M.A., inzh.

Quality of the insulation of water-wheel generators made by the "Uralelektroapparat" plant. Elek. sta. 30 no.3:51-53 Mr '59. (MIRA 12:5)

(Electric insulators and insulation) (Electric generators)

5/194/62/000/002/058/096 D273/D301

AUTHOR:

Gladkikh, M. F.

TITLE:

Ultrasonic pulse range-finder for the automation of

hydromonitors

PERIODICAL: Referativnyy sharmal, Avtomatika i radioelektronika, no. 2, 1962, abstract 2-5-35i (Gorn. mashiny i avtomatika. Nauchno-tekhn. sb., 1961, no. 1 (le), 14-17)

TEXT: This is a note on the exploitation of an ultrasonic rangefinder in BHIMFung for a (VHIIGidrougol') in which a magnetostrictive converter is used, working at a frequency of 30 kg, s. The location of the active area is accomplished at the output of the stream of a hydromonitor from the pile of a stope. The range-finder contains apart from the transmitter and receiver, a pulse generator, an amplifier, a measuring instrument for macrosecond time intervals and an instrument for calculating distances. In view of the strong divergence of clusters in the actuators, conical focussing funnels are used. Preliminary experiments with the instrument have

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"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R0005 CIA-RDP86-00514R0005 CIA-RDP86-00514R0005 CIA-RDP86-00514R0005 CIA-RDP86-00514R0005 CIA-RDP86-00514R0005 CIA-RDP86-00514R0005 CIA-RDP86-00514R0005 CIA-RDP86-00514R0005 CIA-RDP86-00514R0005 CIA-RDP

Ultrasonic pulse range ...

\$/194/62/000/002/058/096 0273/0301

shown that it is cossible to measure distances of up to 6 m with an error of -5%. / Abstracter's note: Complete translation. /

MEGORATEV, M.N., inzh., GIFDKIKE, M.F., inzh.

Analyzing the kinematics and dynamics of a mechanism with hydraulic connections using high-speed methon protocolography. Trudy VXII Gadrouglia no.4028-32 - 161. (MIPA 18:3)

 Vserbyubny; neutro-dasledovateliskiy i przyktnokonstruktorskiy institut dobychi usłya digrazowneskim sposobom.

BR0005

GIADKIKH, N., starshiy val'tsovshchik

We'll keep our word. Sov.profsoiuzy 7 no.15:9-10 Ag 159. (MIRa 12:12)

1. Lys'venskiy metallur@icheskiy zavod. (Lys'va--Tin industry)

BR0005

GLADKIKH, Nikolay Dmitriyevich

[The seven-year plan demands this; notebook of a delegate to the 12th Congress of Trade Unions of the U.S.S.R.] Etogo trebust semiletka; zametki delegata XII saezda profesiuzov SSSR. Moskva, Profizdat, 1959. 53 p. (MIRA 14:2)

(Trade unions)

CIA-RDP86-BR0005

60026

18.1210

SUV/126-0-5-9/37

AUTHORS:

Palatnik, i.S., Fedorov, G.V. and Gladkika, A.T.

TITLE:

Study of Aluminium Alloys of the System Al-Cu-Lg on

Specimens of Variable Composition

PERIODICAL: Fizika metallov i metallovedeniye, 1939, Vol 3, 02 3

pl 378-366 (USSR)

ABSTRACT:

Specimens of variable composition were prepared to vacuum by simultaneous evaporation and condensation or the constituents from three cylindrical evalorators (Ref 9 and 10) situated at distances of 70 mm from the collector at the corners of an equitatoral triangle inscribed in a circle of 60 mm diameter. The processes of evaporation of the constituents were cashed so that a summary concentration range of copier and magnesium cetwoor 0.5 and 16% were ensured on the collector. By means of a photometric method (Ref 11) distribution functions for each of the metals were determined for the chosen evaporation process on the basis of which a calculation of the concentration by graphic methods was carried out (Ref 11). After establishing the required vacuem in the equaratus (approximately 10-5 mm Hg) for the resolver or assorbed gases, the collector was heated to a tell protecte of

Card 1/5

66226

SOV/126-8-3-9/33

Study of Aluminium Alloys of the System Al-Cu-Mg on Specimens of Variable Composition

> approximately 100°C, then cooled by running water and condensation of the film was brought about. Buring the condensation of this system on a polished steel collector, which was previously cleaned by treatment with boiling alkali, the specimen was seen to fracture as a certain thickness was attained, which was accompanied by exfoliation due to internal stresses which arise during condensation. At a sufficiently deep etch or the collector with concentrated nitric acid, specimens were obtained in which the junction between the film and the base was increased (probably due to condensation developed as a result of surface etcning) and was sufficient for measuring the microhardness. However, the relatively uneven surface made microhardness testing somewhat difficult. In order to rectify this shortcoming a number of experiments was carried out on the application of Polished and Passivated aluminium as collector. Aluminium was chosen as base for the following reasons: the closeness of the coefficients of thermal expansion of aluminium and the condensate should bring about a decrease

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CIA-RDP86-00513R000 CIA-RDP86-00513R0005

66226

S0V/126-8-3-9/33

Study of Aluminium Alloys of the System Al-Cu-Mg on specimens of Variable Composition

in internal stresses in the layer and a thick aluminum. oxide layer ought to resist mutual diffusion between the condensate and the base. As aluminium exide is closely adherent to the metal it can be expected that the condensed layer will also be firmly adherent to the aluminium oxide. Specimens of variable composition were investigated by microhardness and X-ray structural phase analysis methods. The microhardness was measured with the PMT-3 instrument at loads of 20 and $\frac{1}{4} \cup g$. X-ray pictures were taken in the irradiation of an iron anode in a 05 km diameter camera. The variable composition specimens were annealed in vacuum at various temperatures. Specimens obtained by deposition on the cooled steel collector were investigated by the micronardness method in the concentration range of 0.5 to 6% Mg and 0.5 to 0% Cu through 0.3 to 1% Cu and Mg along the C_{31} sections (Fig 1), along which the ratio between the concentration of copper and that of aluminium was kept constant (0.00); 0.010, (.015 etc). Farallel with the micronardness testing

Card 3/5

66226

SGV/126-6-5-9/33

Study of Aluminium Alloys of the System Al-Cu-Mg on Specimens of Variable Composition

a qualitative X-ray phase analysis was carried out. Microhardness was tested two weeks after preparing the specimens. X-ray structural data for an alloy containing 3.3% Cu and 2.4% Mg are shown in Table 1. In Fig o, comparative curves for the microstructure along the section Cu + Mg = 2% show: (1) literature data (Ref 7); (2) experimental results. rig 7 snows similar curves along the section Cu + Mg = 5%. X-ray data for alloys condensed on a hot collector (200°C) are given in Table 2. Similar data for alloys condensed on a hot collector at 400°C are given in Table 3. The authors arrive at the rollowing conclusions: A condition close to equilibrium for aluminium alloys of the system Al-Cu-Mg is attained either by annealing at approximately 250°C by mutual heterodiffusion or in the preparation process - condensation on a not base (approximately 200°C) by surface heterodiffusion. Diagrams for the microhardness of the aluminium corner of the three-constituent system Al-Cu-Ng, after condensation and natural ageing, have been constructed; microhardness

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CIA-RDP06-00518R0005

- 66226 - SOV/126+d+3+9/33

Study of Aluminium Alloys of the System Al-Cu-Ng on Specimens of Variable Composition

curves after annealing at 150 and 200°C for the sections $C_{31} = 0.025$ and 0.035, and after annealing at 250°C for the sections $C_{31} = 0.015$, 0.025, 0.035 and 0.050, have been plotted. By means of the microsardness methods metastable compounds of the $Al_{x}CuMg_{2}$ and $Al_{x}CuMg$ type have been found to exist which are responsible for the great hardness of the condensed alloys. There are 7 figures, 3 tables and 14 references, 12 of which are Soviet, 1 English and 1 German.

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet;

Khar'kovskiy politekhnicheskiy institut (Khar'ko) State University; Khar'kov Polytechnic Institute)

SUBMITTED: June 25, 1958

Card 5/5

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 CIA-RDP86-0

14.7700 (1137,1136,1158)

5/126/61/011/005/003/015

AUTHORS:

Palatnik, L.S., Konovalov, O.M., Gladkikh, N.T. and

Kolesnikov, V. N.

TITLE :

Investigation of the Three-Component Semiconductor

Compound PbBiSe

PERIODICAL: Fizika metallov i metallovedeniye. 1961, Vol.11, No.5,

pp. 677-680

In investigating Pb-Bi-Se alloys of variable composition the authors discovered that the PbBiSe₂ compound has semiconductor properties. The Pb-Bi-Se alloys were produced by simultaneous evaporation and condensation of the components onto a glass base in a vacuum chamber (about 5×10^{-5} mm Hg). The temperature of the glass base varied between 20 and 120°C Thus specimens of variable composition were produced which were in a highly nonequilibrium state and also in a state approaching the equilibrium The investigations included measuring the thermo e m f also X-ray phase analysis. It was found that for a content of 28-44% Pb and 24-32% Se a sharp rise takes place in the thermo emf (to 300 $\mu V/deg$). X-ray investigations showed for this range lines

Card 1/4

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R0005

2958

Investigation of the Three-Component

. \$/126/61/011/005/003/015 E073/E535

of a phase not hitherto known to exist in the investigated binary systems The maximum thermo e m f are obtained for alloys condensed onto a base at the temperatures 20 and 120°C From the results it is concluded that the compound PbB_1Se_2 forms and it was considered probable that this compound has semiconducting properties Therefore, massive specimens of PbBiSe compounds were investigated, These were produced from a charge corresponding to the stoichiometric composition except for the selenium where an additional quantity had to be added to ensure equilibrium pressure of the selenium vapours in the free volume of the ampoule at 1100°C. charge was placed into a quartz ampoule which was evacuated and The sealed after heating for two hours at 100°C. The thus produced compound was purified by zonal refining. The obtained PbBiSe specimens had a tetragonal lattice with the parameters a = 5.26 Å, c = 3.84 Å. The temperature dependence of the electric resistance is plotted in Fig.3 (a - prior to zonal purification, during heating; b - same, during cooling, b - after zonal purification, during heating). Fig. 4 shows the volc/ampere characteristic for a point contact (I,mA vs U,V) Fig.5 shows the dependence Card 2/4

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 BR0005

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Investigation of the Three-Component..?//25//1/011/011/07/205/015

of the thermo e.m.f., $E_{+}\pi V/^{\circ}C_{+}$ on the distance along the length of the ingot, mm (a - prior to roun' equipment of the youal purification). It can be seen that librate in the fear ducting commound. The specimens produced by the engine we be a secured to the engine of the secured secured to the engine of the secured secured to the engine of the secured s conductivity and a rectification conflictent of 1000 to them. It was found that PiBiSe, can be presented by the rest reconstituation; the structure of the Companied did not some the reconstituation; multiple zonal recrystallization. There are a flavour, I toble and & references: 3 Soviet and 1 Decises to make a Creace: (Ref. 5. Shockley, W. Theetrons and bales in semigraductors, Passion translation, 1657).
ASSOCIATION: Phorlipsyshiv magniferation makes a terraria

A. M. Gor'kego (Win They diere Telverelry Inent A. M. Gortkir)

SUBMITTED: July 27, 1000

Card 3/4

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 eptember 17, 2002

CIA-RDP86-00513R000 CIA-RDP86-09548R0005

s/020/61/140/003/010/020 B104/B125

AUTHORS:

Palatnik, L. S., and Gladkikh, N. T.

TITLE:

Effect of the microheterogeneous condensation of metals in a

vacuum

Akademiya nauk SSSR. Doklady, v. 140, no. 3, 1961, 567-570

TEXT: The authors have shown in a number of papers (L. S. Palatnik et al., DAN, 124, 808 (1959); Fiz. met. i metalloved., 10, 632 (1960); ZhFKh, 33, (1959); Fiz. met. i metalloved., 9, 374 (1960)) that the transformation of a sub-cooled unstable phase (e. g., subcooled vapor) into a stable phase (e. g., crystal) occurs via a metastable intermediate state (e. g., liquid phase) according to "step rule". The latter is not satisfied within an upper (0_1) and a lower (θ_2) limiting temperature. The authors tried to determine the lower limiting temperature θ_2 for Cr, Pt, Ti, Fe, Co, Ni, Be, Cu, Au, and Ag. The metals were evaporated in a vacuum of about 10-5 mm Hg from tungsten spirals or from aluminum- or beryllium-oxide crucibles. carefully polished Cu base layer (120.20.1 mm) was placed 70 mm away from the evaporator. A temperature gradient was produced on the base layer: one Card 1/4

Effect of the microheterogeneous... end was water-cooled

8/020/61/140/003/010/020 B104/B125

Effect of the microheterogeneous...

\$/020/61/140/003/010/020 B104/B125

a distinct dip in region II. The authors' results are collected in Table 1. $\frac{\theta_2}{T_8} = 1/2$ can be regarded as a physical constant. There are 4 figures, 1 table, and 7 references: 6 Soviet and 1 non-Soviet. The reference to English-language publication reads as follows: R. S. Sennett et al., J. opt. Soc. Am., 40, 203 (1950).

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet im. A. M. Gor'kogo (Khar'kov State University imeni A. M. Gor'kiy)

PRESENTED: June 13, 1961, by S. A. Vekshinskiy, Academician

SUBMITTED: June 12, 1961

Card 3/4

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IA RDP86-00513R0005

29816 \$/020/61/140/006/013/030 B104/B102

18-7520

Palatnik, L. S., and Gladkikh, N. T.

TITLE:

AUTHORS:

Condensation mechanism of Cu-Ni alloys

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 140, no. 6, 1961, 1297 - 1300

TEXT: In a previous paper (DAN, 140, no. 3 (1961)) the authors have studied the condensation of pure metals (Cr, Pt. Ti, Fe, Co, Ni, Be, Cu, Au, Ag) in vacuo. In the present paper they describe the condensation of a solid solution. Fig. 1 illustrates the scheme of the Cu-Ni alloy preparation. Cu and Ni were evaporated from crucibles 1 and 2 placed 60 mm away from each other. At a distance of 70 mm from the crucibles, the base layer (polished aluminum, 1.5 mm thick) was located. A temperature gradient from 320 to 30°C existed in the direction of AB. Temperature was measured with six thermocouples. By visual examination of the surface of the sputtered Cu-Ni alloys three regions could be discerned. Region I corresponded to the lowest temperatures. It had a regularly reflecting surface. In region II the surface was dull. In region III the surface was regularly reflecting, too. Slight, dull shadows were observed in

Card 1/3

27816 \$/020/61/140/006/013/030 B104/B102

Condensation mechanism of Cu-Ni alloys

subregions of III having very high temperatures. The boundary between I and III was diffuse, while that between II and III was clearly marked. With an increase of the Ni content the boundaries shift to higher temperatures of the base layer. The surface was examined with an MMM-8(MIM-8) microscope. The structure in I could not be resolved (1000%). Fine-disperse particles (~10-4 cm) existed in II. A polyhedral structure (~10-5 cm) existed in III. With an increase of temperature the grains grew. The microhardness as a function of temperature of the base layer condensation processes: vapor —> solid and vapor —> liquid —> solid. There existed two solid solutions of Cu-Ni with different lattice parafol alloys was wider than that of pure metals. There are 4 figures and 6

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet in. A. M. Gor'kogo (Khar'kov State University imeni A. M. Gor'kiy)

PRESENTED: June 13, 1961, by S. A. Vekshinskiy. Academician

BR0005

29816

S/020/61/140/006/013/030 B104/B102

Condensation mechanism of Cu-Ni alloys

SUBMITTED: June 12, 1961

Fig. 1: Scheme for production of specimens of varying composition.

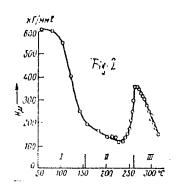
Legend: (1) and (2) crucibles; (3) base layer; (4) thermocouples.

Fig. 2: Microhardness as a function of the temperature of the base layer.

Fig. 1



Fig. 2



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"APPROVED FOR RELEASE: Tuesday, September 17, 2002 **Taesday**, September 17, 2002

CIA-RDP86-00513R000 CIA-RDP86-09548R0005

0 | G/181/69/C04/C01/031/C58 | B104/E102

187530

Palatnik, L. S., Gladkikh, N. T., and Naboka, M. N. AUTHORS:

Second (lower) temperature limit of Iv. Sn. Fb and Bi

condensation

Fizika tverdogo tela, v. 4, no 1, 1901, 302 - 206 TITLE.

TEXT: The lower temperature limits of condensation of It. Sr. Phori Bi were determined by evaporation and condensation on non-uniformly heated were devermined by evaporation and condensation on nonregularity neared polished copper bases (120-10.1 mm). The evaporation rates were between and 10 2 g/cm 2 sec. As was shown in previous experiments the condensate $^{10^{-5}}$ and 10 g/cm 2 sec. As was shown and an intermediate mat section on the Cu plate consists of two bright and an intermediate mat section (L. C. Falatnik et al., DAN SSSR, 174, 608, 960; DAN SSSR, 110, 567, 1761). In the mat section that corresponds to a certain temperature interval of the

Cu plate two condensation processes take place: gaseous solid and condensation The lower temperature limit $\theta_{\rm p}$ of condensation lies within the mat section. If the temperature of the Cu plate is lower than Θ_{2} , the

Card 1/3

CIA-RDP86-00513R000 CIA-RDP86-09513R0005

33358 \$/481/62/004/004/031/052 B104/B102

Second (lower) temperature . .

metals crystallize gaseous—) liquid; at temperatures above 0, the metals crystallize gaseous—) solid. The ratio θ_2/Ts where T_s is the melting temperature of the metal is independent of the type of the metal and almost always 1/3. The temperature interval of microheterogeneous condensation $\Delta\theta_2\simeq 15-30^{\circ}\mathrm{C}$. In the region of the upper critical limiting temperature also a region of microheterogeneous condensation exists: $\theta_1/T_s\simeq 1/3$ is given for the upper critical limiting temperature. There are 3 figures, 1 table, and 5 Soviet references.

ASSOCIATION: Khar kovskiy gosudarstvennyy universitet (Khar kov State

University;

SUBMITTED: July 27, 1961

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 PROVED FOR RELEASE: Tuesday, September 17, 2001

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AUTHORD

injatnik, L. J., and Glainish, N. T

TITLE

In and 34 condengation conditions in the coderal place limiting remperature region.

.EMIODICAL Fizika tveriogo tela, v 4. nc $^{\circ}$, two . According

TEAT Layers of En. 3d and En-Cd alloy, were investigated, conserved a to polithed copper backing, at temperatures between -180 and Cop at pater side, III (sign) on the 0° C side and II, between these two, when microheterogeneous condensation takes place. Microstructure analysis showed that a fine-crystalline structure (1~0 %a) occurs in III. a globular structure (1-2µ) in I II contains single crystals and globule. at the same time In I and III crystals and globulae grow when the condensation rate ω is raised. The second (lower) limiting temperature

In and the undersation conditions in

= 0/161/62/004/001/01/01/04 - B102/B136

is $\overline{\theta}_{\rm c}$ = -49° d for Zn and -70° C for H. The temperature respective was a total metals condense microheterogeneously is $\Delta\theta_{\rm c} \approx 0$. The number of

Initial increases with decreasing temperature. For En and CI range we exist in which no congensate forms. The En-Cd alloys also possess a

range. $\omega = (2.5 - 5) \cdot 10^{-6} \, \text{g/cm}^2$ sec, where no condensate forms. For both metals and alloy condensation diagrams are drawn. There are 5 figures of 6 references 6 Soviet and a non-Joviet. The two references to English language publications read as follows: T. A. McLauchian et al. Caratof files. sec. A. 28, 550, 1950; R. J. Jennett et al. Canad. J. of rays.

AUDSILTION

Khartkovskiy gesularstvennyy universitet in 1 % Find of (Koartkov State University Laen)

CETTILLIC

September 4, 1961

Jard 2/2

PALATNIK, L.S.; GLADKIKH, N.T.

Conditions for Zn and Cd condensation in the second (lower) cut-off temperature region. Fiz.tver.tela 4 no.2:424-428 F *62.

(MIRA 15:2)

 Khar'kovskiy gosudarstvennyy universitet imeni Gor'kogo. (Metals, Effect of temperature on)

39981

S/181/62/004/008/026/041 3102/3104

24.7300

AUTHORS: Palatnik, L. S., and Gladkikh, N. T.

TITLE:

Influence of the position of the ternary point on the mechanism of metal condensation in vacuo and on some properties of Zn and Cd condensates

PERIODICAL: Fizika tverdogo tela, v. 4, no. 8, 1962, 2227-2232

TEXT: The vacuum condensation of Zn and Cd on basic layers with temperature gradients of $20\text{-}300^{\circ}\text{C}$ and with deposition rates $V_{\text{C}} = \text{Aexp}(-\mathbb{Q}_{\text{C}}/\text{RT}_{\text{C}}) = 10^{-4} - 10^{-8} \text{ g/cm}^2 \cdot \text{sec}$ is studied, \mathbb{Q}_{C} being the condensation heat and \mathbb{T}_{C} the critical temperature of condensation. If \mathbb{T}_{C} the Zn and Cd crystallize—from the vapor. This mechanism differs from that of Bi, Pb or Sn, and is connected with the position of the ternary point $(\mathbb{P}_{\text{O}},\mathbb{T}_{\text{O}})$ in the P-T diagram. If \mathbb{P}_{O} a condensation takes place via the liquid phase (as happens with Bi, Pb, Sn) but if \mathbb{P}_{O} a the Card 1/3

S/181/62/004/008/026/041 B102/B104

. .

Influence of the position of the ...

condensate orystallizes from the gaseous phase, h being the vacuum pressure at which the experiment is made. For both Zn and Cd $\log \omega$ is a linear function of 1/T. The temperature range of the vapor-to-crystal condensation may be divided into several sections (in the case of Zn and Cd there are three of these, A, B, and C) differing as regards orientation of the crystals. For Zn and Cd the transitions from nonoriented to oriented condensates or from one texture to another are characterized by the ratios of T_{AB} (or T_{BC}) corresponding to the boundaries between the temperature regions A and B (or B and C) and the melting temperature T_{m} : For Zn the ratio $T_{AB}/T_{m} = 0.57$ and $T_{BC}/T_{m} = 0.69$, for Cd the ratio $T_{AB}/T_{m} = 0.58$, $T_{BC}/T_{m} = 0.71$. The microhardness of the condensates as a function of the base layer temperature follows a steplike course both for copper and for glass backings. This is due to the differences in porosity of the condensates and the differing orientations of the crystals. There are 5 figures and 2 tables.

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet im. A. M. Gor'kogo (Khar'kov State University imeni A. M. Gor'kiy)

Card 2/3

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 CIA-RDP86-00514R00 CIA-RDP86-00514R000 CIA-RDP86-00514R000 CIA-RDP86-00514R00 CIA-RDP86-00514R000 CIA-RDP86-00514R00 CIA-RDP86-00514R00 CIA-RDP86-00514R00 CIA-RDP86-00514R00 C

Influence of the position of the ...

SUBMITTED: April 3, 1962

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Card 3/3

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000

EWP(o)/EWT(m)/BDS L 14301-63 S/0126/63/015/004/0592/0596 AP3000102 ACCESSION NRs AUTHORS: Palatnik, L. S.; Gladkikh, H. T.; Litovchenko, TITLE: Effect of component concentration on condensation of composition SCURCE: Fizika metallow i metallowedeniye, vol. 15, no. 4, 1963, 592-596 TOPIC TAGS: alloy, component, condensation, Sb-Se, 2n-Se, Cd-Se ABSTRACT: Alloys of varied composition, the components of which are mutually soluble in a liquid state and insoluble in a solid state, as well as alloys with totally insoluble components in both states were studied. These alloys were the binary systems of Sb-Se, Zn-Se and Cd-Se. Samples 50-100 microns thick were made by a simultaneous evaporation of the components and their condensation on a glass plate at room temperature. Subsequently they were subjected to microhardness and X-ray tests. Three sharply defined somes were observed in the Sh-Se alloys: the specular end areas (zones I and III) of an amorphous alloy, and an opaque middle area (zone II) of crystalline Sb. The microhardness variation in these areas is shown in Fig. 1 (see Enclosure 1). The Zn-Se and Cd-Se also showed a dark opeque zone II. The alloys rich in Zn or Cd had a light, slightly opaque zone I. Alloys

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L 14301-63

ACCESSION NR: AP3000102

rich in Se had a specular zone III. The microhardness of the zones differed sharply. Its variation in the 2n-Se alloy is shown in Fig. 2 and that of Cd-Se in Fig. 3 (see Enclosures). The authors conclude that the variation in the component concentration affects the stability of oversaturated amorphous solutions as well as the Otransition from one condensation mechanism (vapor—erystal) to the other (vapor—>liquid). The influence of the element concentration is as strong as the effect of temperature variation. Orig. art. has: 5 figures and 1 table.

ASSOCIATION: Kher'kovskiy gosudaratvenny*y universitet im. A. M. Gor'kogo (Kher'kov State University)

SUBMITTED: 24Aug62

DATE ACQ: 12Jun63

ENOL: 03

SUB CODE: ML

NO REF SOV: 005

OTHER: 001

Cord 2/82

5/0181/64/006/005/1418/1423

ACCESSION NR: AP4034922

AUTHORS: Palatnik, L. S.; Gladkikh, N. T.; Gerlovskaya, L. Y.; Taran, N. M.

TITLE: The mechanism of ionic compound condensation in a vacuum

SOURCE: Fizika tvordogo tela, v. 6, no. 5, 1964, 1418-1423

TOPIC TAGS: condensation, ionic compound, temperature dependence, vacuum, sodium chloride, potassium chloride, potassium bromide

ABSTRACT: The mechanism of condensation in a vacuum was investigated with NaCl, KCl, and KBr. Samples of the vacuum condensates were prepared by evaporation from cylindrical aluminum exide crucibles and deposition onto backings of polished copper sheets. A temperature drop in the interval 150-6000 was produced along a sheet. In all cases a boundary was clearly observed, corresponding to a critical condensation temperature T_k , above which there was no deposition. The dependence

of T_k on the condensation rate ω was found to be well described by the expression

 $w=Ae^{-rac{Q_{\mathbf{k}}}{kT_{\mathbf{k}}}}$, where $\mathbf{Q}_{\mathbf{k}}$ is the heat of condensation and A is a constant.

A detailed investigation of the condensate microstructure depending on the $\frac{1}{2}$

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ACCESSION NR: AP4034922

preparation conditions was carried out for KBr samples. For constant layer thicknesses the average crystal dimensions L increased gradually with increasing temperature to 300C. In the interval 300-400C \overline{L} increased rapidly. There was practically no change in \overline{L} from 400C to T_k . At constant backing temperatures \overline{L} increased rapidly with increasing layer thickness h < 30 μ , then increased more slowly. For h \geq 60 μ L remained practically unchanged. Orig. art. has: 1

ASSOCIATION: Khar'kovskiy gosudarstvenny*y universitet (Kharkov State University)

SUBMITTED: 25Nov63

ENCL: 00

SUB CODE: SS

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OTHER: 003

BR0005

ACCESSION NR: AP4044898

\$/0032/64/030/009/1097/1100

AUTHORS: Palatnik, L. S.; Gladkikh, N. T.

TITLE: On the microhardness of vacuum condensates of metals

SOURCE: Zavodskaya laboratoriya, v. 30, no. 9, 1964, 1097-1100

TOPIC TAGS: microhardness, vacuum condensation/ PMT3 load machine, MIM 8 microscope

ABSTRACT: The relationships between condensation conditions, structure, and condensate properties were investigated. Condensates of silver, copper, nickel, and iron were formed and tested under varying loads between 2 and 200 grams. Microhardness was measured by means of a PMT-3 load machine with an automatic loading feature. Machine calibration was done by first testing a sodium chloride sample. Results of test measurements are presented in four plots showing. 1) the comparative microhardness characteristics of nickel and silver condensates formed at 260C; 2) microhardness measurements for copper prepared at 70, 100, 130, 160, 270, 350, 170, and 1800 for various phases of metastable liquid and crystal transitions; 3) comparative microhardness for copper condensed at both 80 and 210C; 4) microhardness for cadmium condensate prepared at 30C. Results indicated that thin condensate surface layers exhibit variable hardness. Deeper layers are quite

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ACCESSION NR: AP4044898

dependent upon the surface layers because of secondary processes occurring during the experiment and the disguising influence of the condensation mechanism. Orig. art. has: 5 figures.

ASSOCIATION: Khar'kovskiy gosudarstvenny*y universitet (Kharkov State University)

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L 00733-66 EWT(m)/EWP(i)/EWP(b) IJP(c) JD UR/0181/65/007/009/2850/2852

AUTHOR: Palatnik, L. S.; Gladkikh, N. T.; Naboka, M. N.

TITLE: Zinc sulfide-cadmium sulfide and variable composition zinc-cadmium-sulfur condensed films v v v S

SOURCE: Fizika tverdogo tela, v. 7, no. 9, 1965, 2850-2852

TOPIC TAGS: zinc sulfide containing alloy, cadmium sulfide containing alloy, polycrystalline film, semiconducting film, cadmium sulfide, zinc sulfide, ternary alloy, alloy composition, phase composition, alloy phase diagram, cadmium compound, zinc compound, zinc alloy, cadmium alloy, alloy system, thin film, thin film deposition, quasibinary alloy

ABSTRACT: Thin (15-20 µ) sulfide films have been vacuum deposited by simultaneous vaporization of either ZnS and CdS or their components in variable proportions on a frosted glass substrate which had a temperature of 20 or 80-100C. The films were composed of quasibinary ZnS-CdS alloys or ternary Zn-Cd-S alloys of variable composition. Micrographic and x-ray structure analysis of the films and microhardness determinations made it possible to establish the triangular phase diagram of the Zn-Cd-S system and to define clearly the regions of different phase compositions. Five regions were detected, each containing one, two, or three phases.

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000

L 00733-66

ACCESSION NR: AP5022738

Separation of sulfur crystals was observed in the $(S + \delta)$ phase region after aging the films of ternary Zn—Cd—S alloys for two years $(\delta$ -phase is a series of ZnS-CdS solid solutions). Sinusoidal <u>cracks</u> of served earlier in CdS films on ordinary glass substrate did not appear in the films on frosted glass substrate. Orig. art. has: 2 figures.

ASSOCIATION: Politekhnicheskiy institut im. V. I. Lenina, Khar'kov (Khar'kov Polytechnical Institute)

SUBMITTED: 01Apr65

ENCL: 00

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OTHER: 001

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"APPROVED FOR RELEASE: Tuesday, September 17, 2002 APPROVED FOR RELEASE: Tuesday, September 17, 2002

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I 4913-66 EWT(m)/EWP(1)/EWP(z)/EWP(z)/EWP(b) IJP(c) JD/HW

ACCESSION NR: AP5025324

UR/0126/65/020/003/0396/0400 621.785.3

AUTHOR: Palatnik, L. S.; Gladkikh, N.T.; Gerlovskaya, L.V.

TITLE: Effect of annealing on structure of vacuum-condensed metals

SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 3, 1965, 396-400

TOPIC TAGS: metal film, vacuum, annealing, porosity, smetal vapor deposition

ABSTRACT: Metal films, condensed in a vacuum, have a structure and physico-chemical properties different from these of the annealed massive metals. The $Cu_1^{\gamma}/Ag_1^{\gamma}$ Ni, and Fevfilms were condensed in the $5x10^{-5}$ torr vacuum directly on the clean polished metal base layer, or after coating it with a thin NaCl layer. The film samples were pretreated at various temperatures and then annealed at temperatures $t_a \le 10600$ for 0-1200 minutes. The microstructure and microhardness of samples were studied in thin cross sections before and after annealing. The curves of the despendence of the microhardness (H, μ) of condesed metal before and after annealing on the temperature of the base layer (T_b), of the dependence of H μ on annealing time (T_a) and temperature (T_a), of the dependence of the total volume of pores

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(V) and their average size (d) on to were plotted only for tu and Ni, because the changes in properties of Ag and Fe were similar to those of Gu and Ni. An anomalous decrease in the microhardness of Gu was observed at Tb≈1/3 Ts(Ts is a melting point). An annealing of Ni (ta 10600, Ta 0 min.) decreased its micro-hardness Hu from 400 to 100 kg./sq.mm. The presence of micropores was observed in vacuum-condensed metals after annealing. The number of pores, their size, and their distribution along the thickness of the condensed layer depended on the temperature of the base layer during condensation. The changes in structure and properties of the vacuum-condensed metals were controlled by their porosity. The following interpretation of the porosity formation is given. The highly dispersed metal layers were formed at $T_0 < 1/3$ T_s because the condensation passed through an intermediate metastable liquid phase (mechanism: vapor \rightarrow liquid \rightarrow crystal). This layer had a very distorted structure: it contained the submicropores of vacancy origin and submicrofractures caused by internal stresses. At 1/3 TscTbc2/3 Ts, during which the condensation occurred through formation of the crystal phase nuclei and their growth (mechanism: vapor -> orystal), the submicropores were formed in the boundary between crystals by the mutual screening. The macroporosity appeared after annealing because of the pore growth and possibly because of the effect of residual gases adsorbed by the film during condensation. Orig. art.

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L 1913-66
ACCESSION NR: AP5025324
has: 4 figures and 1 table.

ASSOCIATION: Khar'kovskiy gosuniversitet im. A. M. Gor'kogo (Khar'kov State University): Apar'kovskiy politekhnicheskiy institut im. V. I. Lenina (Anar'kov Polyssull Submitted)

SUBMITTED: 2006404/#-Sep85 ENGL: 00 SUB CODB: MM, 8S

NO REF SOV: 016 OTHER: 000

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CIA-RDP86-00513R000 **■**R0005

GEOUZIN, YR.Ye.: GERLOCOMAYA C.L.: GEMORIKH, TARRIYEK. L.B.: PARLIESEATA: L.B.

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L 25764-66

ACC NR: AP6016366

SOURCE CODE: UR/0070/65/010/003/0399/0404

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B

AUTHOR: Palatnik, L. S.; Naboka, M. N.; Gladkikh, N. T.

ORG: Khar'kov State University im. A. M. Gor'kiy (Khar'kovskiy gosudarstvennyy universitet); Polytechnic Institute im. V. I. Lenin (Politekhnicheskiy institut)

TITLE: Study of the aging process of vacuum condensates

SOURCE: Kristallografiya, v. 10, no. 3, 1965, 399-404

TOPIC TAGS: solid solution, cadmium, sulfur, spherulite, hardness, metal crystal

ABSTRACT: The condensation mechanism and structural conversions occurring in condensates of pure sulfur and its alloys in various concentrations are studied after ageing two years at room temperature. When solid solutions of Cd-S age, they decompose, and filamentary and conical cadmium crystals are formed (5 to 18 at. % 8 and 50 at. %8, resp.). When the sulfur content is 70 to 80 at. %, the sulfur recrystalizes. Filamentary crystals of antimony form when Sb-Se alloys age over a period of 5 years. Sulfur condenses as a liquid from the vapor phase on a glass substrate at 20°C; at - 80°C, the vapor condenses in crystals. Spherulites form in sulfur films deposited on molybdenum substrates at - 80°C and in deposits of sulfur alloys of Cd, Zn, and Sb-Se at - 20°C on polished glass. Curves of microhardness as a function of composition are plotted for Cd-S. Orig. art. has: 6 figures and 1 table. [JPRS]

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Card 1/1 /1 //

UDC: 548.526

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GLATKIKH, U.Ya.

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■R0005

GLADKIKH, M.Ya.

Design of the profile of the guide block for winding mechanisms with hydraulic drive. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.1.175-142 164. (MEGA 17-5)

1. Tushkentskiy tokstilingy institut.

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GLADKIKH, P.A.

AID P - 1106

Sub.ject

: USSR/Engineering

Card 1/1

Pub. 78 - 17/21

Author

: Gladkikh, P. A.

Title

: Means for elimination of vibration in the pipe lines

at a compressor plant

Periodical

: Neft. khoz., v. 32, #10, 84-88, 0 1954

Abstract

The main causes of vibration of pipe lines are related to pulsating air flow and, in addition, to mechanical reinforcements of pipe supports. The author introduced an acoustical volume as a vibration compensator connected with the pipe line. Three drawings, 6 charts

and 1 Russian reference (1953).

Institution: VNII Stroyneft (All-Union Scientific Research Institute

for Petroleum Developments)

Submitted

: No date

AID P - 2698

BR0005

Subject

: USSR/Engineering

Card 1/1

Pub. 78 - 16/21

Author

Gladkikh, P. A.

Title

Gas pulsation in a pipe-line and methods of its

measurement

Periodical

: Neft. khoz., 33, 5, 78-85, My 1955

Abstract

: Piston pumping installations cause a gas pulsation in pipe-lines. The amplitude and other characteristics of these pulsations are important for proper pipe-line design. The author describes special meters installed in the Saratov-Moscow pipe-line to measure those pulsa-tions. Diagrams, photos. References: Total 5, Russian

3 (1948-1954).

Institution : None

Submitted

: No date

SOV/124-58-8-8739

Translation from: Referativnyy zhurnal, Mekhanika, 1958. Nr 8, p 55 (USSR)

Gladkikh, P.A., Maksutov, R.A. AUTHORS:

Reducing Pressure Fluctuations in Pipelines (Gasheniye kole-TITLE:

baniy pul'satsiy davleniya zhidkosti v truboprovodakh)

PERIODICAL: Novosti neft, tekhn. Neftepererabotka, 1957, Nr 6, pp 20-24

ABSTRACT:

To reduce pressure fluctuations in pipelines, air chambers are usually installed directly on the pumps or directly alongside them. To prevent explosions and the carry-off of air from the chambers it is recommended that the connection of the latter to petroleum pipelines operating under pressure consist of connecting pipes filled with a medium in which air is not soluble. Full-scale investigations conducted with an electrical strain-gage apparatus developed at the VNIIStroyneft' Institute (All-Union Scientific Research Institute for Construction in the Petroleum and Gas Industry) revealed the following: 1) The amplitude of the pressure fluctuations in pipelines connected to piston pumps depends on the mean pressure. The amplitude of the pressure fluctuations is greatly increased when a localized hydraulic resistance is present at the end of the pipeline.

Card 1/2

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SOY/124-58-8-8739

Reducing Pressure Fluctuations in Pipelines

2) When air chambers are employed, the reduction in pressure fluctuation which they produce extends through the entire length of the line between the pump and any localized hydraulic resistance encountered (e.g., a heat exchanger, a condenser, etc.) regardless of where along the line the air chamber may be connected. 3) When an air chamber is used, the amplitude of the pressure fluctuations in a pipeline does not increase proportionately with the mean pressure.

M.E. Faktorovich

BR0005

25(2)

PHASE I BOOK EXPLOITATION

SOV/1271

Gladkikh, Petr Andreyevich

Vibratsiya oborudovaniya kompressornykh stantsiy (Vibrations in Compressor Plant Equipment) Moscow, Gostoptekhizdat, 1958. 104 p. (Series: Novaya tekhnika neftyanoy promyshlemosti) 2,000 sopies printed.

Executive Ed.: Martynova, M.P.; Tech. Ed.: Polosina, A.S.

PURPOSE: This booklet is intended for engineers, technicians, and mechanics constructing and operating plants in the petroleum, gas, chemical and other industries where gases and fluids are pumped. It may also be useful to designers of piston-pump plants.

COVERAGE: The author presents in simple form essential information on the theory of vibrations and discusses forces causing vibrations. Methods are given for measuring vibrations in structures and pulsation flow in pipelines. Special emphasis is place on

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"APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000

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20

Vibrations in Compressor Plant Equipment

practical methods of preventing vibrations in actisting and projected plants. In order to facilitate use of the material covered some practical examples are given. No pursual mass are mentioned. There are 32 references, of which 33 and 3 state and 9 English.

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24(1);14(5) PHASE I BOOK EXPLOIPATION

SOV/2965

Gladkikh, Petr Andreyevich, and Sergey Aramovich Khachaturyan

- Vibratsii v truboprovodakh i metody ikh ustraneniya (Methods of Eliminating Vibrations in Pipes) Moscow, Mashgiz, 1959. 242 p. Errata slip inserted. 2,500 copies printed.
- Reviewer: L. Ya. Tsikerman Candidate of Technical Sciences; Ed.: L. B. Kublanovskiy, Candidate of Technical Sciences; Ed. of Publishing House: A. L. Tairova; Tech. Ed.: V. D. El'kind; Managing Ed. for Literature on Machine and Instrument Construction: N. V. Pokrovskiy, Engineer.
- PURPOSE: This book is intended for technical personnel, designers, mechanics, and scientific workers.
- COVERAGE: The book deals with the theory of the generation of vibrations in pressure pipelines and piston-blower installations. Practical suggestions for lowering vibrations to a permissible level are given. The use of acoustic filters as pulsating pressure dampers is described. N. N. Andreyev and A. I. Belov are mentioned for their contributions to the development Card 1/5

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USSR/Medicine - Insect Repellents

Nov 53

"Substances Which Repel Arthropoda That Act as Transmitters of Infectious Diseases," S. G. Gladkikh, Central Sci-Res Disinfection Inst, Min Health USSR

Zhur Mikro, Epid, i Immun, No 11, pp 61-65

In the USSR, the use of K preparation (bisethyl-xanthogen) and anabasine sulfate as insect repellents applied to the skin has not been adopted widely. Dimethylphthalate (I), 2-ethylhexane-1, 3-diol, indalone, and diethylphthalate (II) have been found to be the most suitable and effective

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repellents for application to the skin and for the treatment of fabrics. Data on the effectiveness of I and II as skin repellents for sandflies and mosquitoes have been obtained in field tests and are described.

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(ENCEPHALITIS, EPIDEMIC, prevention and control, vernal tick-borne encephalitis, tick-repellents)

(TICKS, repellents, control of vernal tick-borne encephalitis)

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GLADKIKH, S. G.

"New Data on the Epidemiology of Tick-Borne Encephalitis," by S. G. Gladkikh, Candidate of Medical Sciences, Voyenno-Meditsinskiy Zhurnal, No 9, Sep 56, pp 13-22

This article discusses data accumulated by several authors and researchers within the past 20 years concerning the epidemiology and prophylaxis of tick-borne encephalitis. It includes such lines of study as geographic distribution, epidemiological peculiarities, degree of infectivity of various groups of people, ticks and the extent to which they carry the virus of this disease, tick control, routes of infection, diagnosis, differential diagnosis of forms of the disease, clinical picture, and therapy.

The following species of Ixodes ticks are mentioned as known or suspected carriers of tick-borne encephalitis: Ixodes persulcatus, Fermapentor marginatus, Haemaphysalis concinna, Dermacentor silvarum, and Ixodes ricinus. Gamusoid ticks noted are Eulaelaps stabularis, Haemoganasus nidi, and Haemoganasus ambulans. The article discusses habits, nutrition, manner of attachment, hosts, and foci of these species.

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Several diseases with a hemorrhagic syndrome, such as Omsk or West Siberian hemorrhagic fever, hemorrhagic nephroso-nephritis, and hemorrhagic fever with the nephritic syndrome, are discussed. M. P. Chumakov, who named the disease known as "milk fever," considers that it is identical with two-wave meningoencephalitis but different from bick-borne encephalitis. The connection of mouselike rodents with the spreading of these diseases is considered. A demyelinating form of encephalonyelitis which had a natural reservoir, Vilyuysk encephalonyelitis, was described in 1955.

The article lists three main objectives to be accomplished by tickcontrol measures: elimination of sources of infection (ticks in words and on domestic animals), protection of the population from ticks, and vaccination of contingents of the population which core into frequent contact with ticks. DDT and hexachlorane are recommended for use in heavily populated areas containing large numbers of ticks. When the preparation is used in the form of a dust, 30-50 kg per hectare are distributed by hand or by various dusting or spraying devices. Apparatuses mentioned are OPM, "Serna-3," AAG, and AGL-6 the back-packed duster. The article notes that use of these sprayers in the taign is difficult and that they are most effective on road shoulders, camp grounds, and village outskirts. The author suggests that wooded areas be treated from the air by plane or helicopter. He says that one spraying in the spring with a 10% dust of DDT produces almost complete annihilation of ticks over the course of the season. The article cites investigations of the author in cooperation with S. A. Shilova and N. N. Tkachenko in which it was established that two seasons must elarse before the original number of ticks is restored.

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A description is given of the 1954-55 testing of hexachlorane smoke puts (NBK-G17) for the control of Ixodes persulcatus proposed by V. A. Nabokovym, V. V. Burley, and V. I. Kazakova. Details are given on methods of ridding domestic animals of ticks with 10% DDT dust, hexachlorane dust, and a 5% ointment of DDT and hexachlorane. Individual protective agents are recommended for marches, expeditions, etc. Ye N. Pavlovskiy, G. S. Pervomayskiy, K. P. Chagin, and others are cited as having developed tick-repellents for personal protection.

The article notes that repeated infection with tick-borne encephalitis is not observed as a rule. It briefly describes a method of active immunization developed on the basis of the fact that tick-borne encephalitis confers intense and stable immunity. The article considers that the vaccine prepared from inactivated phenol and formalin virus guarantees immunity for one year. It says that the vaccine has disadvantages, i.e., it must be administered three times, causes sharp pain when introduced subcutaneously, and can incite individual cases of the disease among those inoculated. It is suggested that two inoculations be given in the fall and three (revaccination) in the winter. The author mentions improved preparations which have been proposed, such as a dry vaccine and a concentrated vaccine. These vaccines have been tested in the laboratory and in epidemiological practice but have not yet been widely distributed. The possibility of preparing a vaccine from live attenuated virus is suggested.

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EXCENTA MEDICA Sec.17 Vol.4/4 Public Health, etc. Apr 58

1135. TICK-BORNE ENCEPHALITIS IN THE MOLOTOV REGION (Russian text) - Gladkikh S.G., Kipriyanova N.V. and Ustinova A.P. - VOP. VIRUS. 1957, 3 (165-167)

Tick-borne encephalitis in Molotov Region is known from 1939. Since 1953 a rise of incidence is noted which is due to the extensive peopling. Infections are observed mainly around forest settlements. In such areas mature ticks feed chiefly on domestic animals. The tick Ixodes persulcatus is the principal vector of the disease. There may be observed a continuous process of appearance of new foci of infection and disappearance of old ones. Woodcutters and members of their families are the most affected population group. In some areas the index of incidence among wood-cutters has reached 16%. Twenty-eight per cent of patients were children under 16 yr., 59% were newcomers. The main cause of infection is a tick bite, sometimes the cause of infection is crushing of ticks with fingers and contamination of mucous membranes. Only 4.2% of infections may be attributed to the use of raw goat milk. The clinical course of the disease is comparatively mild: lethality does not exceed 1%. The meningeal form of the disease is observed in 80% of cases, abortive forms in 10%. Severe forms with paresis, paralysis, epileptic insults occur in 10% of cases. Diphasic curve of fever has been observed in 48% of cases. Progressive course of illness has been noted in 3.5% of cases. Prophylactic measures taken in 1954-1955 were the following: (1) Vaccination (15,432 persons). (2) Extermination of ticks by DDT pre-parations (over 1000 hectare). (3) Destruction of ticks on domestic animals (over 1500 heads). (4) Use of repellents. The proper conduct of prophylactic measures has led to the decrease of the incidence of the disease.

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USSR/Zeoparasitelogy. Ticks and Insects in Disease Vectors. Mites.

Abs Jour: Ref Zhur-Diel., No 17, 1958, 77035.

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Orig Pub: Tr. Tsentr. n.-i. dezinfekts. in-ta, 1957, vyp. 10,

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